We Claim:

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 A method of making separations for color printing using two overprinted transparent inks which comprises:

providing a red, green, blue (RGB) encoded initial image; converting the RGB encoded image to a cyan, magenta, yellow (CMY) encoded image;

preparing cyan, magenta, and yellow image separations as source images;

determining visually selected dominant object colors of the original im-

choosing from a color palette two transparent ink spot colors which best represent the selected dominant object colors;

selecting two channels from the cyan, magenta, and yellow source images as first and second channels and assigning a selected transparent spot color to each channel:

superimposing the first and second channels now rendered with the selected spot colors to form a composite image;

adjusting greyscale values of the two superimposed spot color channels to visually produce an image most closely resembling the desired final image; and making new separations of the two channels suitable for preparing printing plates

- The method of claim 1 in which the original digitally encoded RGB is initially adjusted for contrast, brightness, color balance, and tonal value prior to conversion to a CMY image.
- The method of claim 1 that further includes performing global greyscale adjustment of each final separation by manipulating brightness, contrast and tone.
- 30 4. The method of claim 1 that further includes performing local greyscale adjustment of each final separation by manipulating brightness, contrast and tone.

- 5 The method of claim 1 which further comprises providing red, green, and blue separations in addition to the original cyan, magenta, and yellow separations as source images for channel selection.
- 5 6. The method of claims 1 or 5 which further includes selecting a spot color similar in color to the printing substrate and including this color in a third channel prior to superposing the first and second channels.
- 7 The method of claim 6 that further includes performing global grey-10 scale adjustment of each final separation by manipulating brightness, contrast and tone.
 - The method of claim 6 that further includes performing local greyscale adjustment of each final separation by manipulating brightness, contrast and tone.
- 15 9. The method of claim 1 in which there is a color relationship between the spot color of ink chosen to print a separation and the color channel represented by the channel.
- 10. The method of claim 9 in which the spot colors chosen for a cyan 20 channel would be a variation of a cyan, blue, or green ink
 - 11. The method of claim 9 in which the spot colors chosen for a magenta separation would be a variation of a magenta, red, or blue ink.
- 25 12. The method of claim 9 in which the spot colors chosen for a yellow separation would be a variation of a yellow, green, or red ink.
- 13. The method of claims 1, 5, or 6 which further includes converting the original RGB image to L*a*b* encoding, selecting the L* channel, and combining it as a third channel with the two superimposed channels carrying the spot colors, the third channel rendering an opaque masking color.
 - 14. The method of claim 13 in which the masking color is laid down as an opaque ink prior to application of the two transparent inks

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- 15. The method of claim 13 in which the masking color is laid down as an opaque ink subsequent to application of the two transparent inks.
- 16. The method of claims 1 or 5 in which the substrate being printed is 5 paper.
 - 17. The method of claim 16 in which the paper is colored.
 - 18. The method of claim 17 in which the paper is an unbleached kraft
- 10 paper.
 - 19. The method of claim 18 in which the kraft paper is an outer liner-board of corrugated containerboard.
- 15 20. The method of claim 19 in which the corrugated containerboard is formed into a shipping container.
 - 21. The method of claim 6 in which the substrate being printed is paper.
 - The method of claim 21 in which the paper is colored.
 - $\,$ 23. The method of claim 22 in which the paper is an unbleached kraft paper.
- 25 24. The method of claim 23 in which the kraft paper is an outer liner-board of corrugated containerboard.
 - 25. The method of claim 24 in which the corrugated containerboard is formed into a shipping container.
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 26 The method of claims 13 in which the substrate being printed is paper.
 - 27. The method of claim 26 in which the paper is colored.

- \$28.\$ The method of claim 27 in which the paper is an unbleached kraft paper.
- 29. The method of claim 28 in which the kraft paper is an outer liner-5 board of corrusated containerboard
- 30. The method of claim 29 in which the corrugated containerboard is
- 10 31. A paper product printed by the method of claims 1,5,6, or 13.

formed into a shipping container